

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

**LISTING OF CLAIMS:**

1.-15 (cancelled).

16. (currently amended): ~~A profile producing method according to claim 1,~~

A profile producing method of producing a profile representative of an association between a first color data representative of coordinates on a device-dependence color space dependent on a device mediating between image data including color data and a color image, and a second color data representative of coordinates on a common color space independent of devices, said profile producing method comprising:

a color association definition obtaining step of obtaining a color a definition defining an association between the first color data representative of coordinates on the device-dependence color space and the second color data representative of coordinates on the common color space;  
and

a profile producing step of producing a profile defining an association between the first color data representative of coordinates on the device-dependence color space and smoothed second color data representative of coordinates on the common color space, in accordance with the color association definition obtained in said color association definition obtaining step, via a smoothing step of smoothing the second color data representative of coordinates on the common